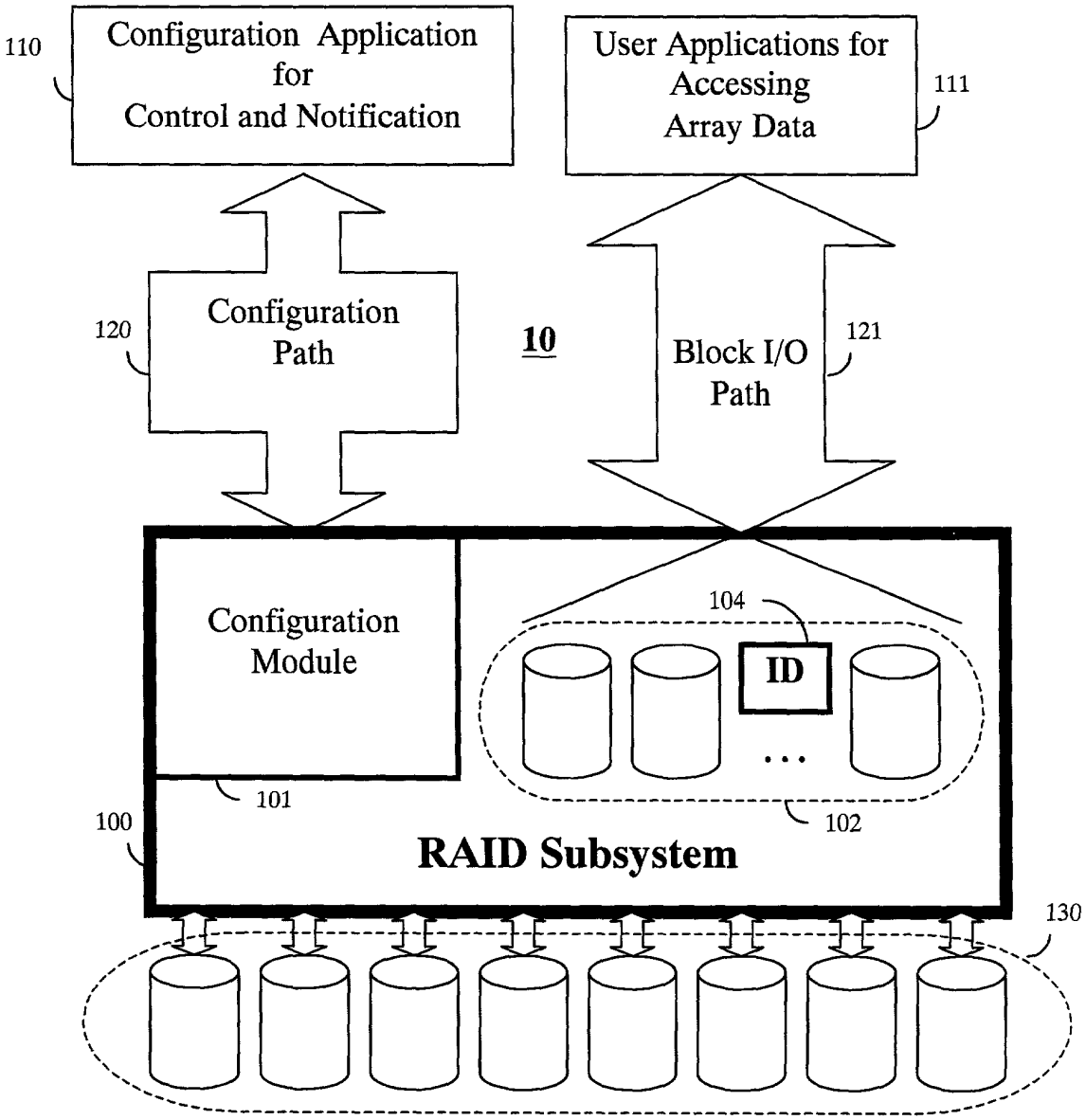
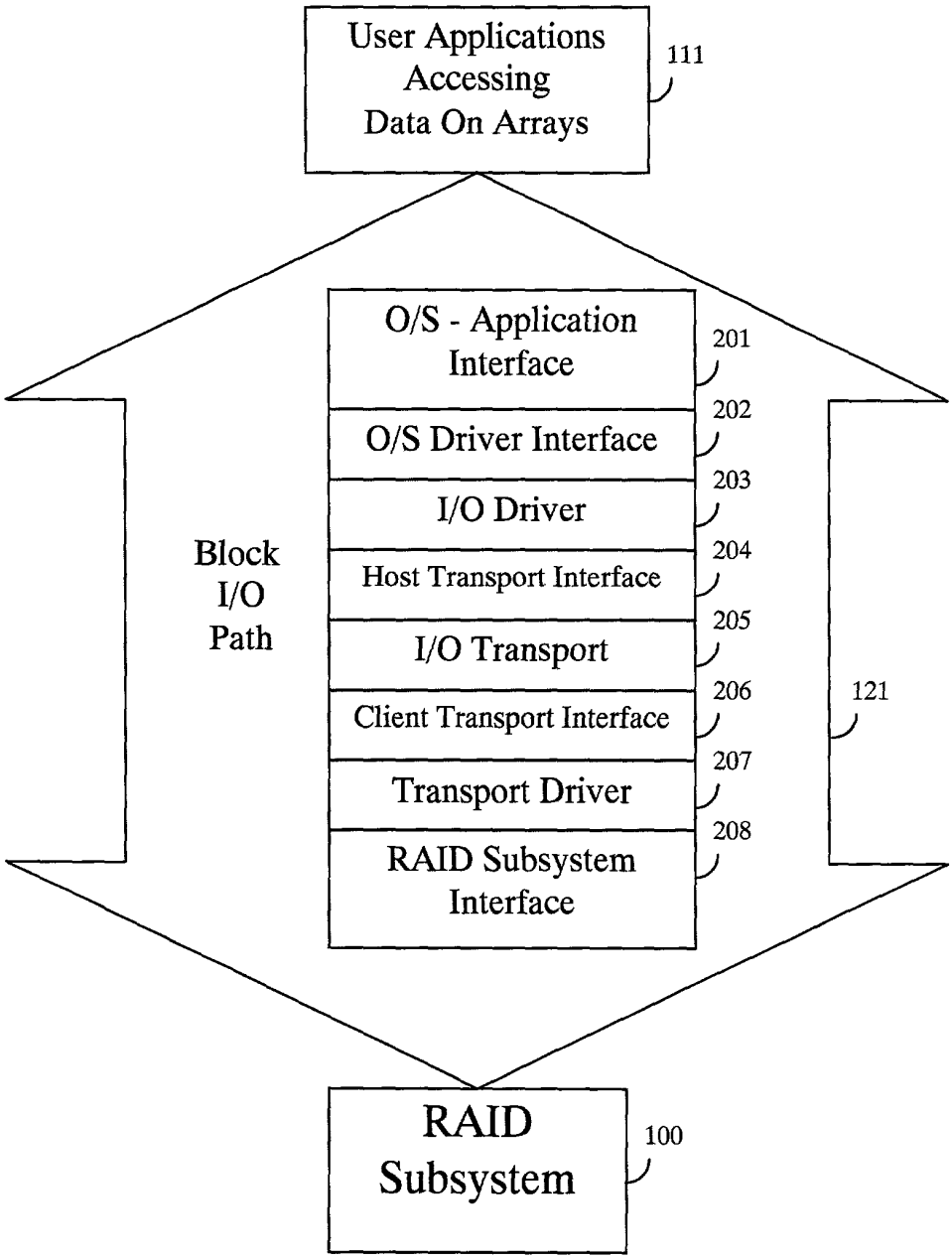


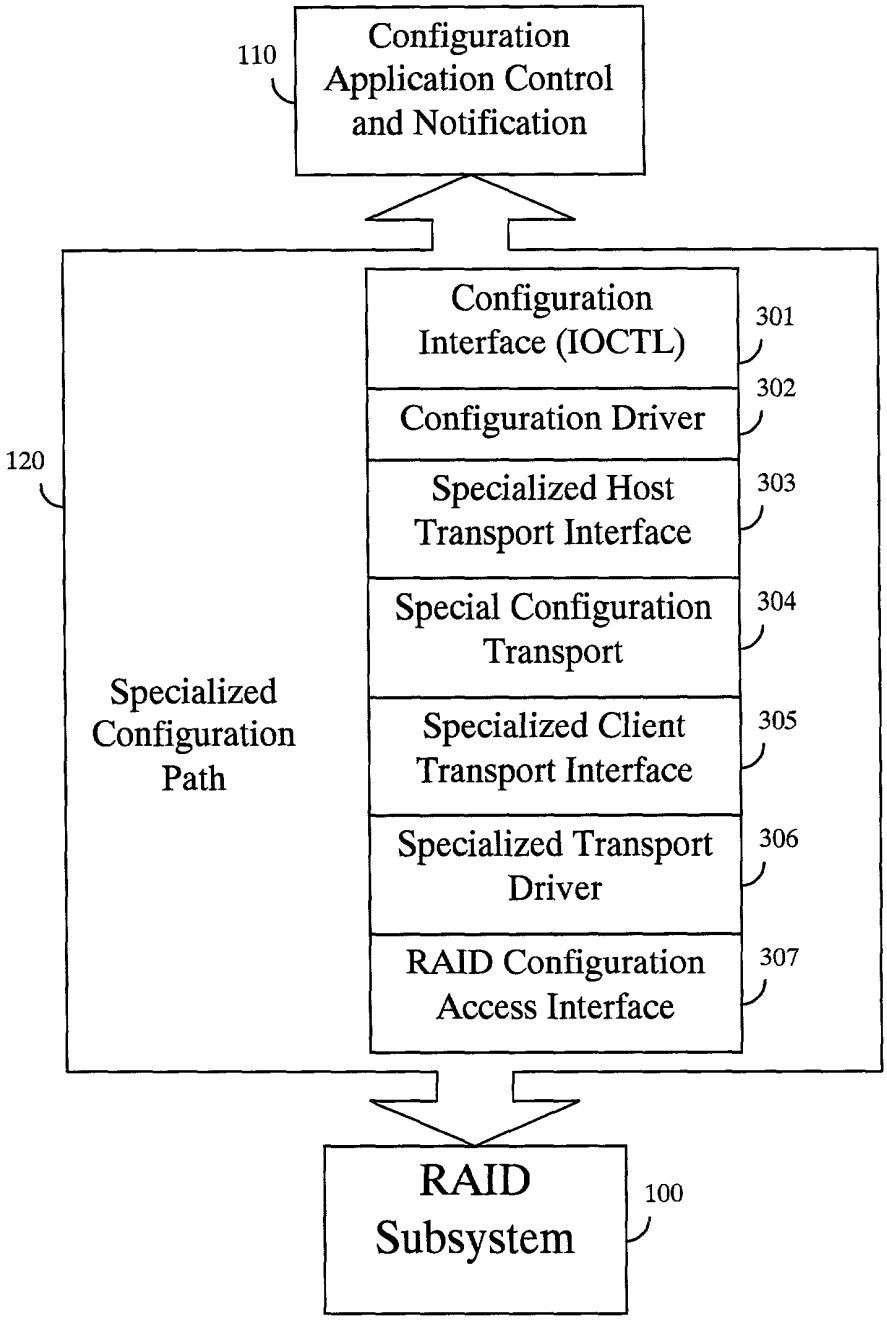

PRIOR ART

*FIG. 1*




PRIOR ART

*FIG. 2*




PRIOR ART

*FIG. 3*

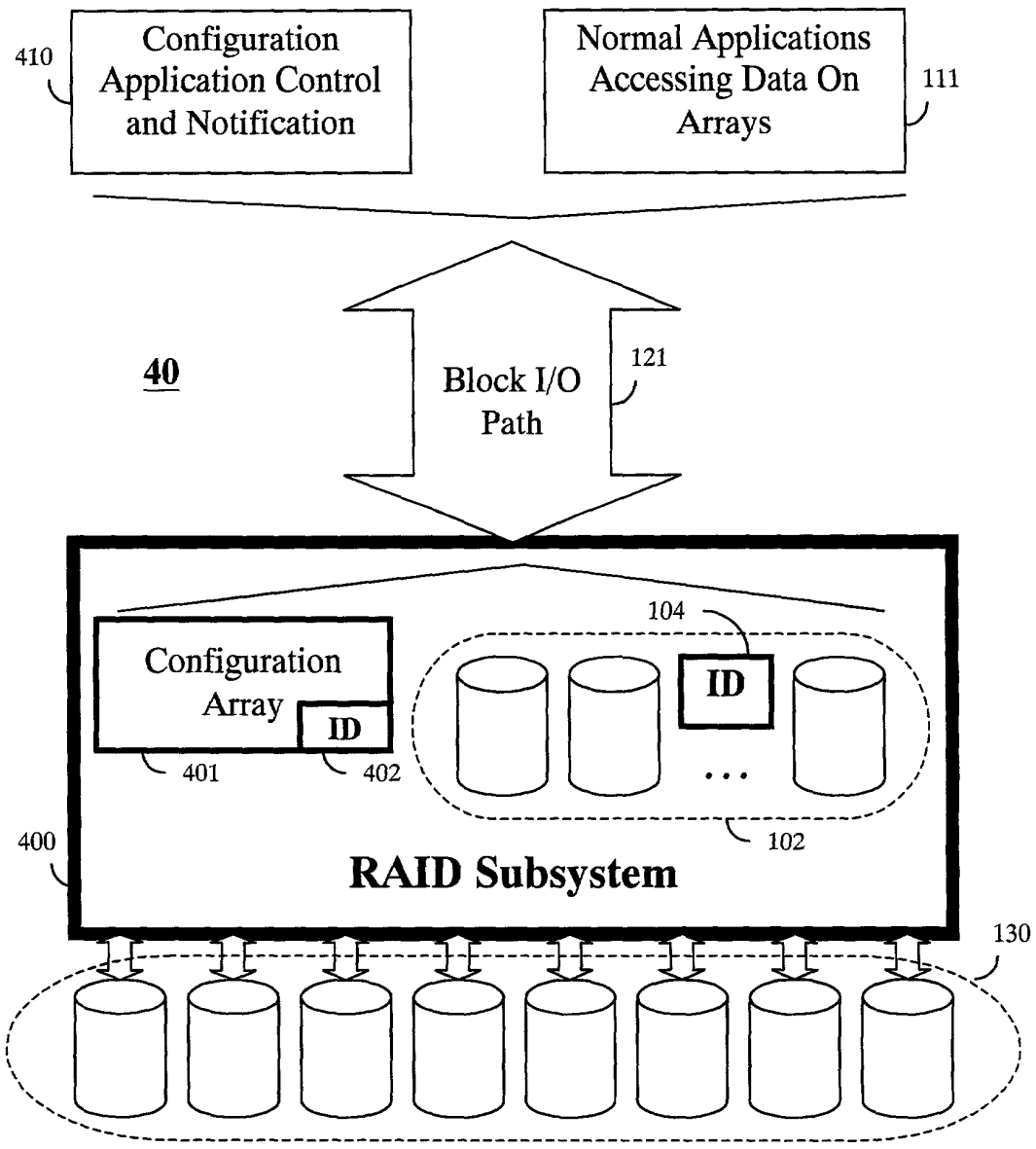

410
Configuration Application Control and Notification
Normal Applications Accessing Data On Arrays
111
40
Block I/O Path
121
104
Configuration Array
ID
401
402
ID
102
400
RAID Subsystem
130

*FIG. 4*

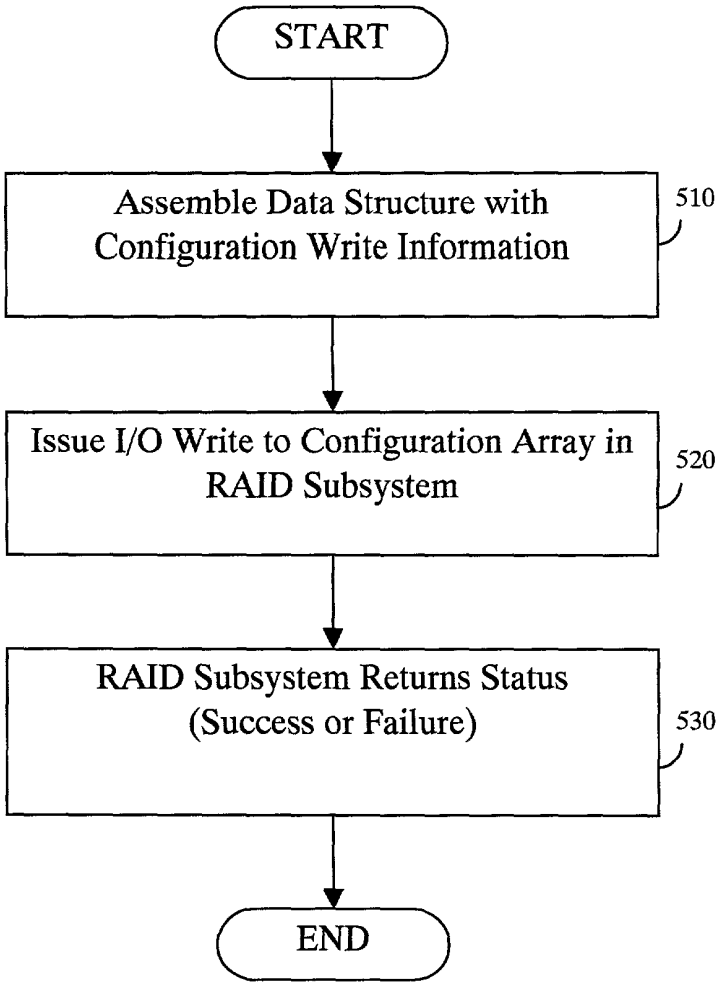

START
Assemble Data Structure with Configuration Write Information
510
Issue I/O Write to Configuration Array in RAID Subsystem
520
RAID Subsystem Returns Status (Success or Failure)
530
END

*FIG. 5*

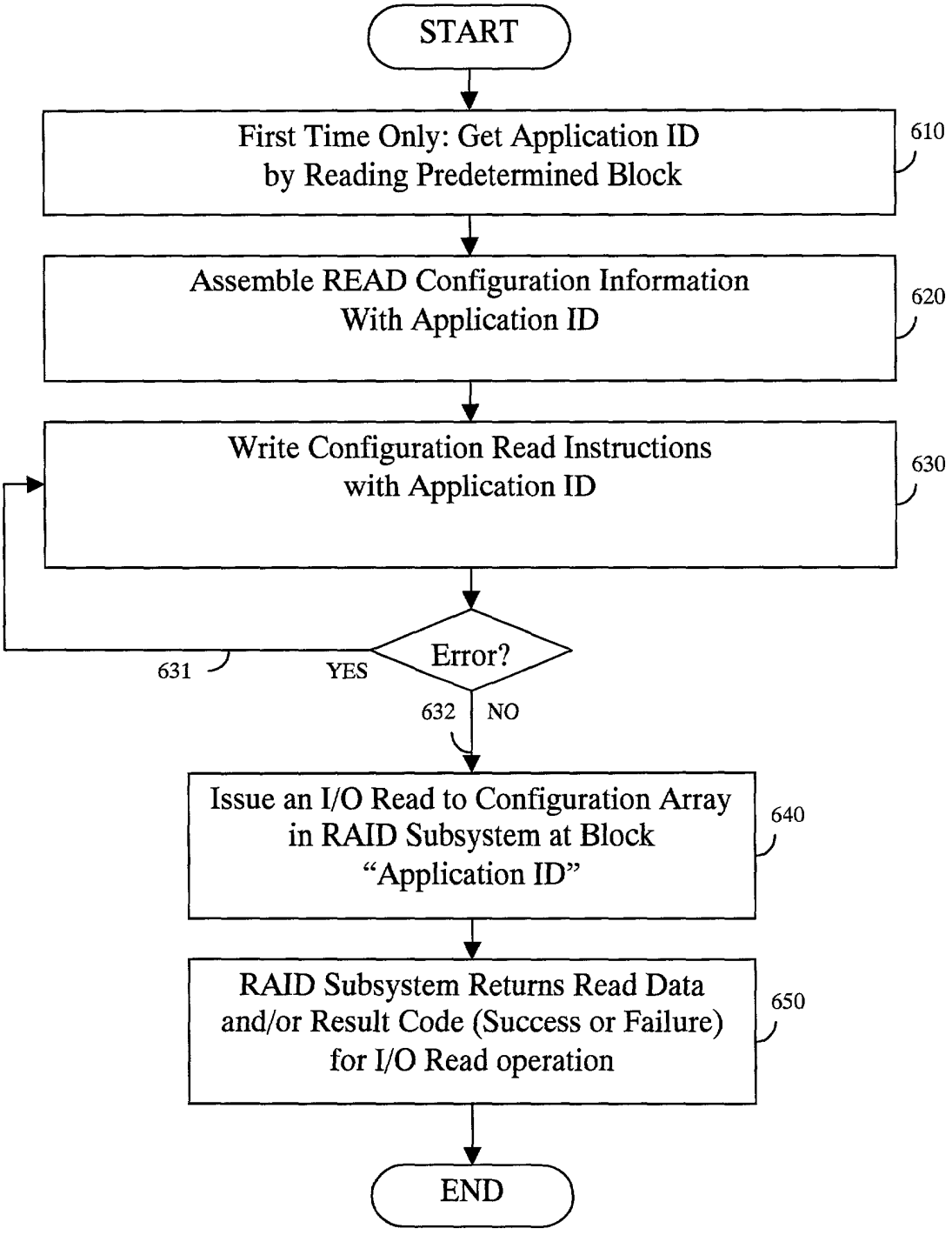

START
First Time Only: Get Application ID by Reading Predetermined Block
610
Assemble READ Configuration Information With Application ID
620
Write Configuration Read Instructions with Application ID
630
Error?
631
YES
632
NO
Issue an I/O Read to Configuration Array in RAID Subsystem at Block "Application ID"
640
RAID Subsystem Returns Read Data and/or Result Code (Success or Failure) for I/O Read operation
650
END

*FIG. 6*

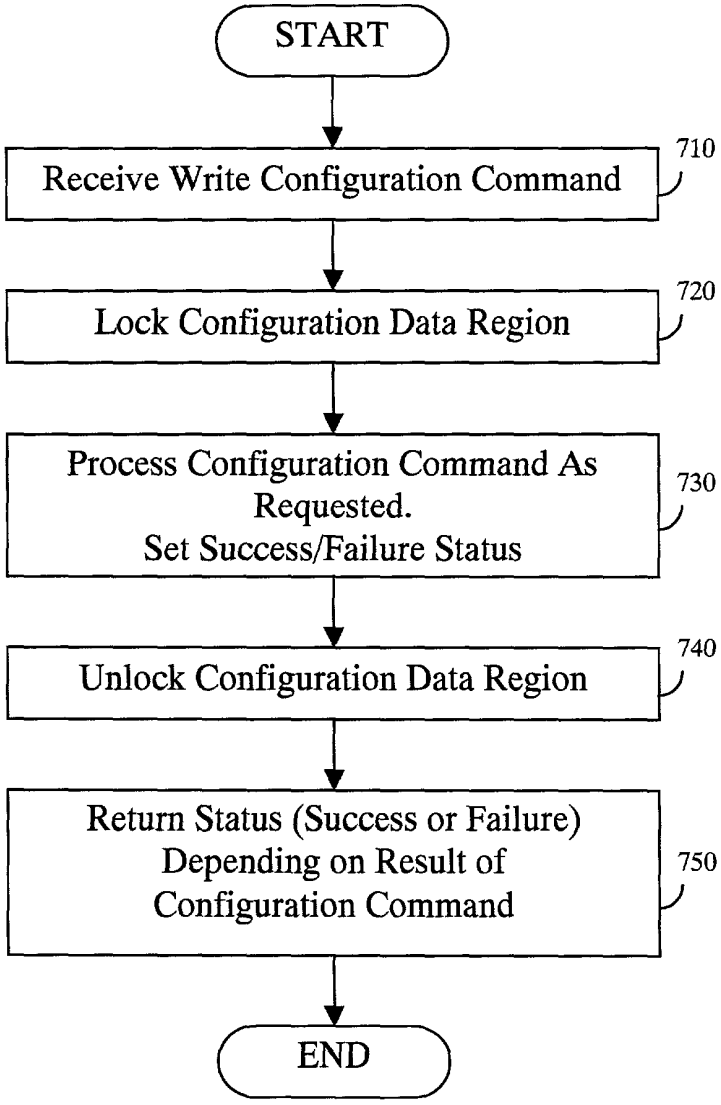

START
Receive Write Configuration Command
710
Lock Configuration Data Region
720
Process Configuration Command As Requested.
Set Success/Failure Status
730
Unlock Configuration Data Region
740
Return Status (Success or Failure) Depending on Result of Configuration Command
750
END

*FIG. 7*

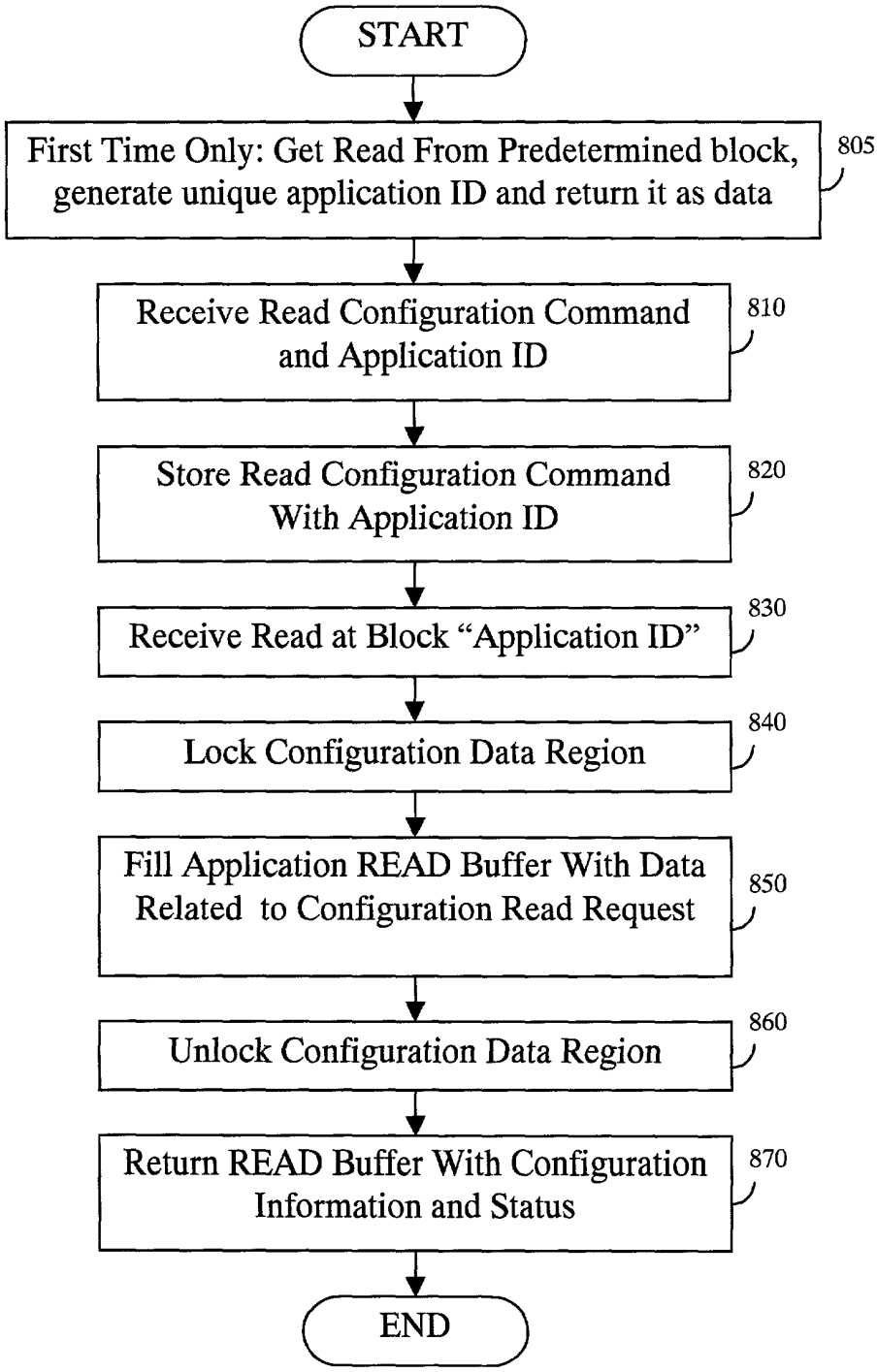

START
First Time Only: Get Read From Predetermined block, generate unique application ID and return it as data
805
Receive Read Configuration Command and Application ID
810
Store Read Configuration Command With Application ID
820
Receive Read at Block "Application ID"
830
Lock Configuration Data Region
840
Fill Application READ Buffer With Data Related to Configuration Read Request
850
Unlock Configuration Data Region
860
Return READ Buffer With Configuration Information and Status
870
END

*FIG. 8*